

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/563,916
Source: 1 Fw0
Date Processed by STIC: 7/6/06

ENTERED



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RAW SEQUENCE LISTING

DATE: 07/06/2006

PATENT APPLICATION: US/10/563,916

TIME: 18:18:05

Input Set : A:\2006-06-29 0020-5461PUS1.TXT

Output Set: N:\CRF4\07062006\J563916.raw

3 <110> APPLICANT: SATO, Noriyuki
 4 TORIGOE, Toshihiko
 5 HARIU, Hiroyuki
 6 HIROHASHI, Yoshihiko
 8 <120> TITLE OF INVENTION: HLA-A24 BINDING CANCER ANTIGEN PEPTIDE DERIVED
 FROM LIVIN
 10 <130> FILE REFERENCE: 0020-5461PUS1
 12 <140> CURRENT APPLICATION NUMBER: US 10/563,916
 13 <141> CURRENT FILING DATE: 2006-01-10
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP04/10008
 16 <151> PRIOR FILING DATE: 2004-07-07
 18 <150> PRIOR APPLICATION NUMBER: JP2003-273236
 19 <151> PRIOR FILING DATE: 2003-07-11
 21 <160> NUMBER OF SEQ ID NOS: 63
 23 <170> SOFTWARE: PatentIn version 3.2
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 280
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Homo sapiens
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 36 Ser His Trp Ala Ala Gly Asp Gly Pro Thr Gln Glu Arg Cys Gly Pro
 37 20 25 30
 40 Arg Ser Leu Gly Ser Pro Val Leu Gly Leu Asp Thr Cys Arg Ala Trp
 41 35 40 45
 44 Asp His Val Asp Gly Gln Ile Leu Gly Gln Leu Arg Pro Leu Thr Glu
 45 50 55 60
 48 Glu Glu Glu Glu Glu Gly Ala Gly Ala Thr Leu Ser Arg Gly Pro Ala
 49 65 70 75 80
 52 Phe Pro Gly Met Gly Ser Glu Glu Leu Arg Leu Ala Ser Phe Tyr Asp
 53 85 90 95
 56 Trp Pro Leu Thr Ala Glu Val Pro Pro Glu Leu Leu Ala Ala Ala Gly
 57 100 105 110
 60 Phe Phe His Thr Gly His Gln Asp Lys Val Arg Cys Phe Phe Cys Tyr
 61 115 120 125
 64 Gly Gly Leu Gln Ser Trp Lys Arg Gly Asp Asp Pro Trp Thr Glu His
 65 130 135 140
 68 Ala Lys Trp Phe Pro Ser Cys Gln Phe Leu Leu Arg Ser Lys Gly Arg
 69 145 150 155 160
 72 Asp Phe Val His Ser Val Gln Glu Thr His Ser Gln Leu Leu Gly Ser
 73 165 170 175
 76 Trp Asp Pro Trp Glu Glu Pro Glu Asp Ala Ala Pro Val Ala Pro Ser
 77 180 185 190

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80 Val Pro Ala Ser Gly Tyr Pro Glu Leu Pro Thr Pro Arg Arg Glu Val
81      195      200      205
84 Gln Ser Glu Ser Ala Gln Glu Pro Gly Ala Arg Asp Val Glu Ala Gln
85      210      215      220
88 Leu Arg Arg Leu Gln Glu Glu Arg Thr Cys Lys Val Cys Leu Asp Arg
89 225      230      235      240
92 Ala Val Ser Ile Val Phe Val Pro Cys Gly His Leu Val Cys Ala Glu
93      245      250      255
96 Cys Ala Pro Gly Leu Gln Leu Cys Pro Ile Cys Arg Ala Pro Val Arg
97      260      265      270

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100 Ser Arg Val Arg Thr Phe Leu Ser

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101      275      280

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104 <210> SEQ ID NO: 2

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105 <211> LENGTH: 9

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106 <212> TYPE: PRT

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107 <213> ORGANISM: Artificial Sequence

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109 <220> FEATURE:

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110 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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114 Ala Trp Asp His Val Asp Gly Gln Ile

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115 1      5

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119 <211> LENGTH: 10

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120 <212> TYPE: PRT

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123 <220> FEATURE:

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124 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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126 <400> SEQUENCE: 3

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128 Ala Trp Asp His Val Asp Gly Gln Ile Leu

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129 1      5      10

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132 <210> SEQ ID NO: 4

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133 <211> LENGTH: 10

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134 <212> TYPE: PRT

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135 <213> ORGANISM: Artificial Sequence

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137 <220> FEATURE:

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138 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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140 <400> SEQUENCE: 4

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143 1      5      10

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146 <210> SEQ ID NO: 5

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147 <211> LENGTH: 9

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148 <212> TYPE: PRT

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149 <213> ORGANISM: Artificial Sequence

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151 <220> FEATURE:

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152 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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154 <400> SEQUENCE: 5

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156 Gly Met Gly Ser Glu Glu Leu Arg Leu

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157 1      5

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160 <210> SEQ ID NO: 6

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161 <211> LENGTH: 9
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163 <213> ORGANISM: Artificial Sequence
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176 <212> TYPE: PRT
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185 1 5
188 <210> SEQ ID NO: 8
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190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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198 Lys Trp Phe Pro Ser Cys Gln Phe Leu Leu
199 1 5 10
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203 <211> LENGTH: 10
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
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213 1 5 10
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218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
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224 <400> SEQUENCE: 10
226 Trp Phe Pro Ser Cys Gln Phe Leu Leu
227 1 5
230 <210> SEQ ID NO: 11
231 <211> LENGTH: 9
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence

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235 <220> FEATURE:

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236 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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 238 <400> SEQUENCE: 11
 240 Arg Cys Phe Phe Cys Tyr Gly Gly Leu
 241 1 5
 244 <210> SEQ ID NO: 12
 245 <211> LENGTH: 9
 246 <212> TYPE: PRT
 247 <213> ORGANISM: Artificial Sequence
 249 <220> FEATURE:
 250 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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 252 <400> SEQUENCE: 12
 254 Leu Thr Ala Glu Val Pro Pro Glu Leu
 255 1 5
 258 <210> SEQ ID NO: 13
 259 <211> LENGTH: 9
 260 <212> TYPE: PRT
 261 <213> ORGANISM: Artificial Sequence
 263 <220> FEATURE:
 264 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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 266 <400> SEQUENCE: 13
 268 Val Gln Glu Thr His Ser Gln Leu Leu
 269 1 5
 272 <210> SEQ ID NO: 14
 273 <211> LENGTH: 9
 274 <212> TYPE: PRT
 275 <213> ORGANISM: Artificial Sequence
 277 <220> FEATURE:
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 280 <400> SEQUENCE: 14
 282 Ser Val Gln Glu Thr His Ser Gln Leu
 283 1 5
 286 <210> SEQ ID NO: 15
 287 <211> LENGTH: 9
 288 <212> TYPE: PRT
 289 <213> ORGANISM: Artificial Sequence
 291 <220> FEATURE:
 292 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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 294 <400> SEQUENCE: 15
 296 Gly Ala Arg Asp Val Glu Ala Gln Leu
 297 1 5
 300 <210> SEQ ID NO: 16
 301 <211> LENGTH: 9
 302 <212> TYPE: PRT
 303 <213> ORGANISM: Artificial Sequence
 305 <220> FEATURE:
 306 <223> OTHER INFORMATION: HLA-A24 binding cancer antigen peptide derived
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 308 <400> SEQUENCE: 16

310 Thr Ala Glu Val Pro Pro Glu Leu Leu
311 1 5

RAW SEQUENCE LISTING

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Input Set : A:\2006-06-29 0020-5461PUS1.TXT

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314 <210> SEQ ID NO: 17
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319 <220> FEATURE:
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322 <400> SEQUENCE: 17
324 Gln Ile Leu Gly Gln Leu Arg Pro Leu
325 1 5
328 <210> SEQ ID NO: 18
329 <211> LENGTH: 9
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333 <220> FEATURE:
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336 <400> SEQUENCE: 18
338 Asp Val Glu Ala Gln Leu Arg Arg Leu
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343 <211> LENGTH: 9
344 <212> TYPE: PRT
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
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370 <210> SEQ ID NO: 21
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386 <212> TYPE: PRT

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387 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/563,916

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:63; Xaa Pos. 2,10

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/563,916

DATE: 07/06/2006

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Input Set : A:\2006-06-29 0020-5461PUS1.TXT

Output Set: N:\CRF4\07062006\J563916.raw

L:983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0